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Fig. 14 CAGCAACCCC CTTGGGTCCC CCTTCCATTG TATGGAGGT CGTATTTCAC TCTATTAAAT CATGCAACTG TCTATTAAAT CATGCAACTG CACTCTCTG GTCCCGTTT 100
TTTATGGCTC AAGCTGAGCT TTGTTGCC ATCACCCTACT GCTGTTGGC ACCGGTCAAG ACCGGTCTGT GACTTCCATC CCTTGGATC CAGGAGAGTG 200
TCCTGGTGTG CTCATGATCCA GCACAGGGC CCTATGCCCT TCCCAATTGG GCPAAAGGCT TGCCATTGTT CCTGCACAGC TAATGGCTG GGTTCATCTC 300
AATCGAGCTG AACACTAGTC ACTGGGTTCC ACGGTCTCT TCCATGACCC ATGGCTCTA ATAGAGCTAT AACACTCACT GCATGGTCA AGATTCGATT 400
CCCTGGAACTC CGTGAGACCA AGAACCCAG GTCAAGAAC ACAAGGCTTG CCACCATGTT GGAAAGGCC CACCACTT TIGGAGGAAGC CCCGCCACTA 500
TCTGGGAGC TCTGGGAGCA AGGACCCAG GTAAACAAATT GGTGACCTG AGGGGACCTG AATCGGCAAC CATGAAAGGA TCTCCAAAGGC ATGGAAAC 600
GTTCCCCCCG AGGCAAAAT GCCCCTAGAA CGAATTCTGG AGAATTGGGA CCAATGGAC ACTCAGCTGAC TAAGAAAGAA ACAGATTATA TCTCTCTGCA 700
V P P E A K M P L E R I L E N W D Q C D T Q T L R K K R F I F F C S 37
GTACCGGCTG GCGACATAT CCTCTCTAG GGAGAGAAC CTGGCTCTCT GAGGGAGTA TAATTTATA CATCATCTTA CAGCTGACCC TCCTCTGCTAG 800
T A W P Q Y P L Q G R E T W L P E G S I N Y N I I L Q L D L F C R 70
AAAGGAGGGC AAATGGAGTG AAGTGGCCATA TGTGCAAATCT TCTCTCTAT TAAGAGGACA CTCACAAATT TGTTAAAAGT GTGGTTTATG CCCTACAGGA 900
K E G K W S E V P Y V P Q T F F S L R D N S Q L C K K C G L C P T G 1003
AGGCCCTGAGA GTCCACCTCC CTACCCAGC GTCCCTCTCC CGACTCTTC CTGACTTAAT AAGGACCCCC CTTAACCCA AACGGTCCAA AAGGAGATAG 1000
S P Q S P P Y P S V P S P T P S S T N K D P P L T Q T V Q K E I D 137
ACAAAGGGGT AAACATGAA CCAAAGAGTG CCATATTCC CGGATATTC CGGATATTC CCCCCTCCAAG CAGTAGAGGG AGGAAATTG GGCCAGGCC GAGTGCCTGT 1100
K G V N N E P K S A N I P R L C P L Q A V R G G E F G P A R V P V 170
ACTTTTCTCTCTCTGAGCT TAAGCAAT TAATAGAC CTAGTAAT TCTCAGATA CCCTGACGGC TATATTGATG TTTACAGG GTTAGGACAA 1200
P F S L S D L K Q I K I D L G K F S D N P D G Y I D V L Q G L G Q 203
TCCTTGATC TGACATGGAG AGATTAATG TTRACTAA ATCAGACACT AACCCCAAT GAGAGAAGTG CGCGCTTAAC TGCAAGCCGA GAGTTGGCG 1300
S F D L T W R D I M L L L N Q T L T P N E R S A A V T A A R E F G D 237
ATCTTGTTA TCTCAGTCAG GCCAACTAAATA GGATGACAC AGAGGAAGA ACAACTCCA CAGGGCAGCA GGCAGTTCAC AGTGTAGGACC CTCATTTGGGA 1400
L W Y L S Q A N N R M T T E E R T T P T G Q Q A V P S V D P H W D 270
CAGAAATCA GAACATGGAG ATTGGTCCA CAACATTG CTAACMTGCG TGCTAGAAGG ACTGAGGAA ACTAGGAGA AGCCTATGAA TTRACTATG 1500
T E S E H G D W C H K H L L T C V L E G L R K T R K K P M N Y S M 303
ATGTCCACTA TAACACAGGG AAAGGAAGAA ATCTCTACTG CTTTCTGGA CAGACTAAGG GAGGCTTGA GGAAGCATACT CTCCTCTGCA CCTGACTCTA 1600
M S T I T Q G K E E N L T A F L D R L R E A L R K H T S L S P D S I 337
TTCAGGGCA ACTAATCTTA AAGGATAAGT TTRACTCTCA GTCAAGCTGCA GACATTAGAA AAAACTTCA AAAGTCTGG AAACAAACTT 1700
E G Q L I L K D K F I T Q S A A D I R K K L Q K S V L G S E Q N L 370
AGAAAACCTA TTGAACTTG CAACCTCGGT TTITATAAT AGAGATCAGG AGGAGGAGGC AGAATGGGAC AAATGGGATA AAAAAAAAG GGCACCCGCT 1800
E T L L N L A T S V F Y N R D Q E E Q A E W D K W D K K R A T A 403
TTAGTCATGG CCCTGAGCCA AGGGACCTT GGAGGCTCTG GAAAGGGAA AAGCTGGCA AATAGGAAGC CTATAGGGC TTGCTTCAG TGCGGTCTAC 1900
L V M A L R Q A D F G G S G K G K S W/A N R K P N R A C F Q G L Q 437
AAGGACACTT TAAMAGAT TGTCCAAATA GAMATAAGGC GCCCCCTGT CCATGCCCT TAGTCAGGG GAAATCAAGG GAAATCAAGG 2000
G H F K D S P N R N K P P C/R P C P L R Q G N/H W K A H C P R G 470
ATCAAGGATAC TCTGAGTCAG AAGCCATTA CCAAGATGATC CAGGAGGAGG ACTGAA 2055
S R Y S E S E A I N Q M I Q Q Q D 487

Fig. 15

GGACCCGTAG TATGGGTTAA TCCCCTCCGG GAAACCAAGC CCCAGTACG AGAACGAGAA ATAGAATGGG GAACCTACG ACCAACATGT TTCTCCCT 100
G | P V W G N P L R E T K P Q Y S E E E I E W G T S R G H G P L P S 34
CAGGATGGCT AGCCACTCAA GAAGGAAA TACTTGGGT GGAGGTAC CATTGAAAT TACTTAAAC CCTTCAGCAA ACCTTCACG TAGGATTGA 200
G W L A T E E G K I L L A A N Q W K L T L Q Q T R I L G I D 67
TAGCACCCAT CAGATGCCA ATCTTATT TACTGGACCA GGCCTTTCAA AACATCAA CGCATTCGA CGCATGTC AGGCGTC AGGCTGAGA AGGATTAAT 300
S T I Q I A K S L F T G P G L P K T I K Q I V R A E V E V E V S Q R N N 100
CCCTGCCTT ATGGCAAGC TCTCTAGGA GAGACAGAA CAGGCAATT CCCAGCAA GACTGGCAAC TAGATTAT CCACATCCA AACATCAGG 400
P L P Y R Q A P S G E Q R T G N Y P R E D W Q L D F I H H P K S Q G 134
GATTTCTG TCTACTATC TCGCTGATA CTGGTAGATA CTGGCACTGG TTGGCAGAG GCCTTCCCT GTAGGACAGA AAAGTCCAA GAGGTAAAGGAGCTAGT 500
F Q C I L V W V D T F T G W A E A P P C R T E K P Q E V I K A L V 167
TCATGAGTA ATTCCCAAGAT TCGGACTTCC CTCAGGCTTA CAGAGTGACA ATGGACTGACA ATGGTAAACC ACAGTAAACC AGGGAGTATC CCAGGGCTTA 600
H E V I P R F G L P . G L Q S D N G P A F K A T V T Q G V S Q A L 200
CGTATGAGT ATCACTACA CTGACCTAG AGGCCACAT CCTCGGGAA GTGGAGAAC ATGGAGAAC TCAAGACAG CTAAGCCAGG 700
G I E Y H L H C T . R P Q S S G K V E K W K T L K R H L N K L T Q E 234
AACCCACCT CGCATGCTT GCTCTGTT CTATGGCTT ACTAACATC CAAATCTC CCCAAAMGGC AGAACATAGC CCATCAGAA TCTCTATGC 800
T H L A W S A L L S I A L L R I Q N S P Q K A G L S P Y R M L Y G 267
ACGGCTCTTC CTAAACATG ACCCTCTGT TGACCTAGG ATGGCAGAG TCTACCTCC TTACCCATT ATCAACAGT TCTTAAGCA 900
R S F D T W D L L L D Q E X A N L V A D I T S L A K Y Q Q V L K T 300
TATCAAGGG CCTGTCCCC AGGGAGGA AACAAATAT TCCACCTCC TCTCTGTA TTGTCAAGT CCCTCTCTC TAAATCCCA TCCTCTAGCA 1000
L Q G A C P R E E G X K E I P H P G V W V L V K S L P S W S P S L D T 334
CGTCCTGGG AGGACCTAC CGCTCTTT TCTCTCC AACCTCTCC AACCTCTCC AACCTCTCC AACCTCTCC AACCTCTCC AACCTCTCC 1100
S W G G P Y P V I L S I P T A V K V A G V E S W I H R T R I K P W 367
GATCTCCG AGGAAACCCG AACATCAGG GGCAACCT AGCTTCTT TCAACCTT AGGAGATCG TCCCTCTC TCAAGCA ACCGTA 1197
I L P K E P E N P G D N A S Y F P E P L E D L C L L P R Q Q P . 398

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Fig. 16

GCTAGGCA GTATGGTG CCTGGCGGA AGCGGAGA GTTAAAGAA AACGGGAA GCGAGGAA
 E N S I S W L A E V G K D S K K . R K K G E S Q R K K R E E E T 100
 Pol Env:LSU
 GAAAGAGA CTTGAGAA GAAAGAGA GTTAAAGAA AACGGGAA GCGAGGAA GCGAGGAA
 K K N L K R E R S S K E K T V Y P I P L K A R V | N F C L P S Q G I 200

 ATCTCTTA TGCAGCAT CCTACATT CTGGCCCG ACTACTCA CGGCCCGG AACCTTC TTCTACG CCTGGCCA 300
 F F L C G T S T Y I C L P T N W T G T R T L V F L S P N I N I A P

 GAAAGAGA CCTATGCTT AGCTGAA CCTAAAGC CCTGGCGG AGCCCTCA CCTATCC TATTTGGG GTTGGAG GTTGTGCA 400
 G N Q T L L V P V K A K V R Q C | R A I Q L I S L F I G L G M A T A T

 CGGCCCGG AGGGGCTT TTCTACCT CCTACATT CCTACATT CCTACATA CCTACATA CCTACATA CCTACATA CCTACATA 500
 G T G T A G L S T S L S Y Y H T L S K N F S D S L Q E I M K S I L

 TACCTCAA TCCAGTG ACTCTTC AGCATGAT CCTGAAACC GGCGGGCC AGAACCTC AGCTGGGA AGAGAGCTT CGGAGCTC 600
 T L Q S Q L D S L A A M T L Q N R R G P H L L T A E K G G I C T F

 TTGGGGAG AGGTTT TTTCTAC CCTACATA TGTGGCA CCTGGCA CCTGGCA CCTGGCA AGGGGCTT AGGGGCTT AGGGGCTT 700
 L G F E C C F Y T N O S S I V R D A T W H L Q E R A S D I R Q C L S

 GAACTCTTA TCCACCTC AGGGGCTT CCTACATT CCTGGCA CCTGGCA CCTGGCA CCTGGCA CCTGGCA CCTGGCA CCTGGCA 800
 N S Y T N L W S W A T W L L P F L G P M A A I L L L T F G P C I

 TTGGGGAT CCTGGAT TGTGGTC TGTGGTC AGGGGCTT CCTGGCA CCTGGCA CCTGGCA CCTGGCA CCTGGCA CCTGGCA 900
 F K L L V K F V S S R I E A I K L Q M V L Q M E P Q M S S T N N F

 TTGGGGAC CCTGGGG AGGGGCTT CCTGGCA CCTGGCA CCTGGCA CCTGGCA CCTGGCA CCTGGCA CCTGGCA CCTGGCA CCTGGCA 1000
 Y Q G P L E R R S T G T S T S L E I P L W K T L Q L Q G P F F A P I Q

 AGGGGCTT 1100
 Q E V A R A V I G Q I P N S S W G V L F R G G I E E . A C W Q P

 TTGGGGCTT CCTGGCTT CCTGGCTT CCTGGCTT CCTGGCTT CCTGGCTT CCTGGCTT CCTGGCTT CCTGGCTT CCTGGCTT 1200
 H S P R W I S V P P Q P W C P L W P C L R S P S A C H C T V G A S

 TTGGGGCTT CCTGGCTT CCTGGCTT CCTGGCTT CCTGGCTT CCTGGCTT CCTGGCTT CCTGGCTT CCTGGCTT CCTGGCTT 1300
 F W A G Q G R S Q L P Q L A G R Y G G R D A G G N Q G C A W R L R A

 CCTGGCTT AGGGGCTT AGGGGCTT CCTGGCTT CCTGGCTT CCTGGCTT CCTGGCTT CCTGGCTT CCTGGCTT CCTGGCTT 1400
 S H S S R W A R R A P H S G S E G L S T W A R Q H L C S T S S

 CCTGGCTT AGGGGCTT AGGGGCTT CCTGGCTT CCTGGCTT CCTGGCTT CCTGGCTT CCTGGCTT CCTGGCTT CCTGGCTT 1500
 L G L S C L P R G A G L R E H A A C P C L S P P P R R G F L H S P

 AGGGGCTT AGGGGCTT CCTGGCTT CCTGGCTT CCTGGCTT CCTGGCTT CCTGGCTT CCTGGCTT CCTGGCTT CCTGGCTT 1600
 S F P D K H H P L S T V P S P I N H P R V E E C G H T A R D W Q A V

 TTGGGGCTT CCTGGCTT CCTGGCTT CCTGGCTT CCTGGCTT CCTGGCTT CCTGGCTT CCTGGCTT CCTGGCTT CCTGGCTT 1700
 P L A A L V R D P L R E A S W A P E S G G D L E N L Y V . L R D C

 TAAATGCC AGGGGCTT
 K Y T N Q H
 1719